6GZ5

Power Pentode

7-PIN MINIATURE

Electrical:

Heater Ratings and Characteristics:		
Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3	0.380	amp
Peak heater-cathode voltage:		
Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200[a] max.	volts
Direct Interelectrode Capacitances:[b]		
Grid No.1 to plate	0.24	pf
Input: G1 to (K+G3,G2,H)	8.5	pf
Output: P to (K+G3,G2,H)	3.8	pf

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See *General Section*
Bulb	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW	7CV

Pin 1 - Cathode, Grid No.3
Pin 2 - Grid No.1
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Grid No.1
Pin 6 - Grid No.2
Pin 7 - Plate

H 4, G1 5, H 3, 6 G2, G1 2, 7 P, K G3 1

Bulb Temperature (At hottest point on bulb surface) . . 200° C

AMPLIFIER —Class A1

Maximum Ratings, *Design-Maximum Values:*

Plate Voltage	300 max.	volts
Grid-No.2 (Screen-Grid) Voltage	300 max.	volts
Grid-No.1 (Control-Grid) Voltage:		
Positive-bias value	0 max.	volts
Average Cathode Current	30 max.	ma
Grid-No.2 Input	1.1 max.	watts
Plate Dissipation	4.8 max.	watts

Typical Operation and Characteristics:

	No Bypassing	*Bypass Capacitor*	
Plate Supply Voltage	250	250	volts
Grid-No.2 Supply Voltage	250	250	volts

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	No Bypassing	*Bypass Capacitor*	
Cathode Resistor	270	270	ohms
Peak AF Grid-No.1 Voltage	9.8	2	volts
Zero-Signal Plate Current	16	16	ma
Max.-Signal Plate Current	16	16	ma
Zero-Signal Grid-No.2 Current	2.7	2.7	ma
Max.-Signal Grid-No.2 Current	5	5	ma
Plate Resistance (Approx.)	–	0.15	megohm
Transconductance	–	8400	μmhos
Load Resistance	15000	15000	ohms
Total Harmonic Distortion	10	10	percent
Power Output	1.8	1.1	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.5 max.	megohm
For cathode-bias operation	1 max.	megohm

[a] The dc component must not exceed 100 volts.
[b] Without external shield.